

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	((spherical near2 lens) with (glass near2 advantag\$6))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:20
L2	126	((spherical near2 lens) with (glass)) and ((aspherical near2 lens) with plastic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:27
L3	1	("5267075").PN.	USPAT	OR	OFF	2006/10/13 15:17
L4	38	blasingle.in.	USPAT	OR	OFF	2006/10/13 15:18
L5	11	blasingle.in.	USPAT	OR	OFF	2006/10/13 15:23
L6	7	((("5778124") or ("5351330") or ("6925234") or ("5533159") or ("6454470")) or (("5381495") or ("20030210874")).PN.	US-PGPUB; USPAT	OR	OFF	2006/10/13 15:20
L7	0	("2003/0210874").URPN.	USPAT	OR	OFF	2006/10/13 15:21
L8	2666	(((optic\$3 near2 (fiber or fibre)) or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibrooptics\$3) near2 (coupl\$3)) with (lens or micro-lens or microlens or lenslet or collimat\$3 or focus\$3) same (laser or laserdiode or ld or source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 15:28

EAST Search History

L9	560	8 and ((ball or spherical or sphere or spherically) with (lens or lenslet or micro-lens or microlens or collimat\$3 or focus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2006/10/13 15:30
L10	157	9 and ((aspheric\$5) with (lens or lenslet or micro-lens or microlens or collimat\$3 or focus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2006/10/13 15:38
L11	2953	((laser or laserdiode or ld or (laser adj diode)) with (coupl\$3 near2 (fiber or fibre or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibreoptic\$3))) same (lens or micro-lens or microlens or lenslet or collimat or collimat\$3 or focus\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2006/10/13 15:39
L12	458	((laser or laserdiode or ld or (laser adj diode)) with (coupl\$3 near2 (fiber or fibre or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibreoptic\$3))) same (lens or micro-lens or microlens or lenslet or collimat or collimat\$3 or focus\$3)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2006/10/13 15:39
L13	9	("20020114082"   "20030039276"   "20030058904"   "20040051956"   "4915484"   "5125052"   "5181224"   "5553174"   "6075650").PN. OR ("6768593").URPN.	US-PGPUB; USPAT; USOCR;	OR	OFF	OFF	2006/10/13 15:41

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3120	((385/33) or (385/34) or (385/35)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/12 18:14
S2	1094	S1 and (spherical or ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/12 18:16
S3	968	S2 and @ad<"20030702"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/12 18:16
S4	13	("4616899"   "4995687"   "5274723"   "5526455"   "5692083"   "5937122").PN. OR ("6536959").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/12 18:29
S5	5	("5701373"   "5745625").PN. OR ("6026206").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/12 18:30
S6	14	("3628294"   "3932184"   "5011254"   "5256851"   "5377287").PN. OR ("5701373").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/12 18:31

## EAST Search History

S7	62	("4204743"   "4265511"   "4307934"   "4451115"   "4501637"   "4687285"   "4707067"   "4711521"   "4740259"   "4752109"   "4790618"   "4793508"   "4794682"   "5073047"   "5175783"   "5181265"   "5247595"   "5257336"   "5337398"   "5347605"   "5452389"   "5463707"   "5504828"   "5526455"   "5537504"   "5546212"   "5566265"   "5600741"   "5737133"   "5778124"   "5835514"   "Re34790").PN. OR ("5940564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/12 18:32
S8	17	("4078852"   "4456330"   "5293438"   "5446816").PN. OR ("5774607").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 09:57
S9	31	("3864019"   "4102559"   "4143940"   "4147402"   "4191447"   "4204743"   "4281891"   "4327963"   "4398790").PN. OR ("4456330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 09:58
S10	46	("4456330"   "4665529"   "4678268"   "4729621"   "4737006"   "4755203"   "4807954"   "4854663"   "4893890"   "5185836").PN. OR ("5293438").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 09:59
S11	12	("3649098"   "4290667"   "4510005"   "4729621"   "5293438"   "5346583"   "5446816"   "5505725"   "5815624"   "6072148"   "6115521"   "6453090").PN. OR ("6980364").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:00
S12	47	("4074933"   "4528260"   "4689291"   "4835078"   "5073003"   "5079130"   "5135590"   "5216543"   "5286338").PN. OR ("5346583").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:00
S13	14	("20020031301"   "20020034363"   "4186999"   "4475788"   "4998795"   "5140660"   "5263103"   "5293438"   "5346583"   "5555333"   "5621831"   "6374012").PN. OR ("66333700").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:02
S14	7	("5128808"   "5638472"   "5815328"   "6072519"   "6374012").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:02
S15	5	("5293438"   "5403308"   "6215925").PN. OR ("6501878").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:05
S16	11	("20030021531"   "4327963"   "5311611"   "5366456"   "5496309"   "5498260"   "6031953"   "6215925"   "63332051"   "6445939"   "6501878").PN. OR ("7039275").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:05

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S17	24	("3410979"   "3718383"   "3864019").PN. OR ("4147402").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:08
S18	39	("3649098"   "4147402"   "4257674"   "4290667"   "4325607"   "4421383").PN. OR ("4531810").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:09
S19	31	("4290667"   "4326771"   "4383731"   "4421383"   "4531810").PN. OR ("4616899").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:11
S20	9	("20010015405"   "4616899"   "4695719"   "4699453"   "5163117"   "6309566"   "6364542").PN. OR ("6488417").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:12
S21	26	("20020001428"   "20020150354"   "20030007753"   "20040033016"   "20040033016"   "3871935"   "46666238"   "4732599"   "4971422"   "5168537"   "5257334"   "5369529"   "5708743"   "5764832"   "6012852"   "6128134"   "6188495"   "6254285"   "6318902"   "6374004"   "6477303"   "6488417"   "6491447"   "6556747"   "6846113"   "6869229"   "6901185").PN. OR ("7118293").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:12
S22	16	("3967877"   "4163953").PN. OR ("5195150").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:16
S23	7	("20020196998"   "20030228109"   "4753521"   "4900120"   "5195150"   "6571036"   "6952744").PN. OR ("7085449").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:17
S24	13	("3950075"   "4186995"   "4632505"   "4824202"   "4889399"   "4889406"   "4911523"   "4919506").PN. OR ("4989943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 10:18
S25	29	("4078852"   "4111522"   "4190316"   "4307934"   "4380365"   "4475788"   "4639077"   "4650285"   "4687285"   "4705351"   "4726648"   "4781431"   "4807958"   "4830453"   "4841344"   "4842391"   "4846544").PN. OR ("4919506").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:21
S26	1	("6332051").PN.	USPAT	OR	OFF	2006/10/13 11:38
S27	1	S26 and (image near2 guide)	USPAT	OR	OFF	2006/10/13 11:29
S28	1	S26 and (image near2 guide)	USPAT	OR	ON	2006/10/13 11:29

## EAST Search History

S29	6	("6038045"   "6181451"   "6188816"   "6188817").PN. OR ("6332051").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:38
S30	22	jun.in. and ai.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:40
S31	173	(aspherical with spherical) same ((optic\$3 near2 (fiber or fibre)) or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:55
S32	211	(aspherical with spherical) same ((optic\$3 near2 (fiber or fibre)) or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/13 11:41
S33	22	(aspherical with spherical) same ((optic\$3 near2 (fiber or fibre)) or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/13 13:06
S34	23	(aspherical with spherical) same ((optic\$3 near2 (fiber or fibre)) or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:06
S35	0	("2006/0056762").URPN.	USPAT	OR	OFF	2006/10/13 11:44
S36	23	("4302070"   "4790617"   "5011247").PN. OR ("5278929").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:49
S37	36	("4302070"   "5151961"   "5195155"   "5278929"   "5315680"   "5586208"   "5612807"   "5631987"   "5845030"   "5857050"   "5914972"   "5963694"   "5993073"   "6071016"   "6155724"   "6244754"   "6310997"   "6332719"   "6366396"   "6394665"   "6409398"   "6415078"   "6490064"   "6525872"   "6540412"   "6625002"   "6697414"   "6736550"   "6748413"   "6772794"   "6799901"   "6819700"   "6840684"   "6843609"   "6893163"   "6953290").PN. OR ("7059780").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:50
S38	5	("2010024551"   "2002013122"   "6272272"   "6799901").PN. OR ("6953290").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:50

## EAST Search History

S39	5	("20010024551"   "20020131122"   "6272272"   "6799901").PN. OR ("6953290").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:51
S40	22	("20020041731"   "20020102084"   "5278929"   "5546212"   "5552918"   "5721426"   "5997185"   "6243508"   "6252725"   "6353491"   "6453091"   "6454467").PN. OR ("694074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 11:54
S41	3	((aspherical near2 (lens or microlens or micro-lens or lenslet) with ((fiber or fibre or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3 or fibre-optic\$3) near2 (abut\$4 or touch\$3 or contact\$3 or press\$3)))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2006/10/13 11:58
S42	331	((aspherical near2 (lens or microlens or micro-lens or lenslet) with ((fiber or fibre or fiberoptic\$3 or fibreoptic\$3 or fiber-optic\$3 or fibre-optic\$3 or fibre-optic\$3)))	US-PGPUB; USPAT; IBM_TDB; FPRS;	OR	ON	2006/10/13 11:58
S43	31	("5112122"   "5293269"   "5442487").PN. OR ("5761354").URPN.	US-PGPUB; USPAT; IBM_TDB; FPRS;	OR	OFF	2006/10/13 13:01
S44	1240	(aspherical with spherical)	US-PGPUB; USPAT; IBM_TDB; FPRS;	OR	OFF	2006/10/13 13:06
S45	5267	(aspherical with spherical)	US-PGPUB; USPAT; IBM_TDB; FPRS;	OR	OFF	2006/10/13 13:06

## EAST Search History

S46	3120	((385/33) or (385/34) or (385/35)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/13 13:11
S47	1094	S46 and (spherical or ball)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:12
S48	5	("5701373"   "5745625").PN. OR ("6026206").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 13:11
S49	14	("3628294"   "3932184"   "5011254"   "5256851"   "5377287").PN. OR ("5701373").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 13:11
S50	968	S47 and @ad<"20030702"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:12
S51	13	("4616899"   "4995687"   "5274723"   "5526455"   "5692083"   "5937122").PN. OR ("6536959").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 13:11
S52	62	("4204743"   "4265511"   "4307934"   "4451115"   "4501637"   "4687285"   "4707067"   "4711521"   "4740259"   "4752109"   "4753508"   "4790618"   "4818053"   "4824202"   "4842391"   "5073047"   "5074682"   "5175783"   "5181265"   "5247595"   "5257336"   "5337398"   "5347605"   "5452389"   "5463707"   "5504828"   "5526455"   "5537504"   "5546212"   "5566265"   "5600741"   "5737133"   "5778124"   "5835514"   "Re34790").PN. OR ("5940564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 13:11

## EAST Search History

			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/13 13:11
S53	2	("20040247242"),PN.				
S54	1	("2004/0247242").URPN.				
S55	11	("20010030789"   "20020076148"   "20030085054"   "20030156607"   "20030236019"   "20040101258"   "20040247242"   "20041010258"   "20050013547"   "5741442"   "6757308"   "6888169")PN. OR ("7065106").URPN.	USPAT US-PGPUB; USPAT; USOCR	OR OR OR	OFF OFF OFF	2006/10/13 13:13 2006/10/13 13:14
S56	186	"385"/\$.ccls. and (((optic\$3 near2 (fiber or fibre)) or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibreoptic\$3) with (lens or micro-lens or microlens or collimats\$3 or focus\$3 or lenslet)) same (aspherical)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/13 13:15
S57	220	"385"/\$.ccls. and (((optic\$3 near2 (fiber or fibre)) or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibreoptic\$3) with (lens or micro-lens or microlens or collimats\$3 or focus\$3 or lenslet)) same (aspherical))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:15
S58	223	"385"/\$.ccls. and (((optic\$3 near2 (fiber or fibre)) or fiber-optic\$3 or fibre-optic\$3 or fiberoptic\$3 or fibreoptic\$3) with (lens or micro-lens or microlens or collimats\$3 or focus\$3 or lenslet)) same (aspherical\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:16

## EAST Search History

S59	155	\$58 not \$50				US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 13:16
S60	101	\$59 not \$32				US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:08
S61	2045	((plastic with lens) same advantag\$5) and ((glass with lens)				US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:09
S62	1419	((plastic with lens) same advantag\$5) and ((glass with lens) same advantag\$5)				US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:09
S63	28	S61 and "385"/\$.ccls.				US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:10

## EAST Search History

S64	307	(plastic with aspheric\$5) same (glass with spherical\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:15
S65	222	S64 and @ad<"20030702"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:12
S66	112	(plastic near2 aspheric\$5) same (glass near2 spherical\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 14:16